

PENT COOPERATION TREA

PCT

NOTIFICATION OF ELECTION
(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
 United States Patent and Trademark
 Office
 Box PCT
 Washington, D.C.20231
 ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 12 November 1999 (12.11.99)	
International application No. PCT/AU99/00175	Applicant's or agent's file reference 100585
International filing date (day/month/year) 19 March 1999 (19.03.99)	Priority date (day/month/year) 20 March 1998 (20.03.98)
Applicant TOWNSEND, James, Dunstone	

1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

19 October 1999 (19.10.99)

in a notice effecting later election filed with the International Bureau on:

2. The election was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer F. Gateau
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

Date of mailing (day/month/year) 12 November 1999 (12.11.99)	From the INTERNATIONAL BUREAU
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To:

McMASTER OBERIN ARTHUR ROBINSON &
HEDDERWICKS
Stock Exchange Centre
530 Collins Street
Melbourne, VIC 3000
AUSTRALIE

Applicant's or agent's file reference 100585	IMPORTANT NOTIFICATION
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International application No. PCT/AU99/00175	International filing date (day/month/year) 19 March 1999 (19.03.99)
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1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address McMASTER & ASSOCIATES Bourke Place Level 15 600 Bourke Street Melbourne, VIC 3000 Australia	State of Nationality	State of Residence
	Telephone No.	
	61 3 9670 9900	
	Facsimile No.	
	61 3 9670 9800	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

Name and Address McMASTER OBERIN ARTHUR ROBINSON & HEDDERWICKS Stock Exchange Centre 530 Collins Street Melbourne, VIC 3000 Australia	State of Nationality	State of Residence
	Telephone No.	
	61 3 9613 8880	
	Facsimile No.	
	61 3 9613 8779	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer F. Gateau Telephone No.: (41-22) 338.83.38
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M/H

**PATENT COOPERATION TREATY
PCT
INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

REC'D 09 FEB 2000

WIPO

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 100585	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).
International application No. PCT/AU 99/00175	International filing date (<i>day/month/year</i>) 19 March 1999	Priority Date (<i>day/month/year</i>) 20 March 1998
International Patent Classification (IPC) or national classification and IPC Int. Cl.⁶ A01G 25/16		
Applicant IRRIGATION CONTROL NETWORKS PTY LTD et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet. <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheet(s).
3. This report contains indications relating to the following items: I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input checked="" type="checkbox"/> Certain observations on the international application

Date of submission of the demand 19 October 1999	Date of completion of the report 21 January 2000
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer A SEN Telephone No. (02) 62832158

I. Basis of the report

1. With regard to the elements of the international application:*

- the international application as originally filed.
- the description, pages , as originally filed,
 pages , filed with the demand,
 pages , filed with the letter of .
- the claims, pages , as originally filed,
 pages , as amended (together with any statement) under Article 19,
 pages , filed with the demand,
 pages , filed with the letter of .
- the drawings, pages , as originally filed,
 pages , filed with the demand,
 pages , filed with the letter of .
- the sequence listing part of the description:
 pages , as originally filed
 pages , filed with the demand
 pages , filed with the letter of .

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language which is:

- the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, was on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

4. The amendments have resulted in the cancellation of:

- the description, pages
- the claims, Nos.
- the drawings, sheets/fig.

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims 1-15	YES
	Claims	NO
Inventive step (IS)	Claims 1-15	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-15	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

Claims 1 to 15 meet the criteria set forth in PCT Article 33(2)-(4) for novelty, inventive step and industrial applicability. The prior art published before the priority date does not disclose, teach or suggest an irrigation control system comprising a meter for measuring weather conditions in a first area, a monitor for extracting rainfall data for a sub-area of the first area from a radar scanning the first area, a store for storing the extracted data and a controller connected to the meter, monitor and store for calculating a moisture value and a calculated moisture value for the sub-area and for regulating the irrigation in the sub-area.

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

1. Claims 1, 3 to 12, 14 and 15 do not define the invention described because they omit the following feature which, from reading the specification as a whole, appears to be essential to the invention:
 - (a) the controller regulates the irrigation in the sub-area by either initiating or preventing irrigation of the sub-area depending upon whether the moisture content value is less than or more than the predetermined moisture content value for the sub-area

This feature is defined in Claims 2 and 13. It appears from your description as a whole that the whole point of the invention is to control irrigation by measuring moisture content at least. The monitor studies the radar output, the controller calculates moisture content, simply to arrive at rainfall/moisture content values so that irrigation can be regulated with at least this "moisture" feature in mind. However as Claim 1 for example is defined at present, the regulation need not even consider moisture content; true, the monitor and controller calculate moisture content values but there is nothing defined in the claim to say that the controller uses these values for regulating irrigation.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU 99/00175

A. CLASSIFICATION OF SUBJECT MATTER		
Int Cl ⁶ : A01G 25/16		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC: A01G 25/16, 25/00		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU: IPC as above		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DERWENT		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	AU 15836/97 A (IRRIGATION CONTROL NETWORKS PTY LTD) 16 October 1997 Entire document	1-15
<input type="checkbox"/> Further documents are listed in the continuation of Box C		<input checked="" type="checkbox"/> See patent family annex
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 30 March 1999	Date of mailing of the international search report 13 APR 1999	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No.: (02) 6285 3929	Authorized officer A. SEN Telephone No.: (02) 6283 2158	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/AU 99/00175

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member
AU 15836/97	WO	97/27733

END OF ANNEX

INTERNATIONAL COOPERATION TREATY

From the:
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

McMaster Oberins Arthur Robinson & Hedderwicks
GPO BOX 1776Q
MELBOURNE VIC 3001

PCT

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY EXAMINATION
REPORT

(PCT Rule 71.1)

Date of mailing day/month/year	31 JAN 2000
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Applicant's or agent's file reference 100585	IMPORTANT NOTIFICATION	
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International application No. PCT/AU 99/00175	International filing date 19 March 1999	Priority date 20 March 1998
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Applicant IRRIGATION CONTROL NETWORKS PTY LTD et al
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1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide

Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer A SEN Telephone No. (02) 62832158
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TENT COOPERATION TREATY
PCT
INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 100585	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).	
International application No. PCT/AU 99/00175	International filing date (<i>day/month/year</i>) 19 March 1999	Priority Date (<i>day/month/year</i>) 20 March 1998	
International Patent Classification (IPC) or national classification and IPC Int. Cl.⁶ A01G 25/16			
Applicant IRRIGATION CONTROL NETWORKS PTY LTD et al			

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I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input checked="" type="checkbox"/> Certain observations on the international application

Date of submission of the demand 19 October 1999	Date of completion of the report 21 January 2000
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer A SEN Telephone No. (02) 62832158

I. Basis of the report**1. With regard to the elements of the international application:***

- the international application as originally filed.
- the description, pages , as originally filed,
 pages , filed with the demand,
 pages , filed with the letter of
- the claims, pages , as originally filed,
 pages , as amended (together with any statement) under Article 19,
 pages , filed with the demand,
 pages , filed with the letter of
- the drawings, pages , as originally filed,
 pages , filed with the demand,
 pages , filed with the letter of
- the sequence listing part of the description:
 pages , as originally filed
 pages , filed with the demand
 pages , filed with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.**These elements were available or furnished to this Authority in the following language which is:**

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims 1-15	YES
	Claims	NO
Inventive step (IS)	Claims 1-15	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-15	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

Claims 1 to 15 meet the criteria set forth in PCT Article 33(2)-(4) for novelty, inventive step and industrial applicability. The prior art published before the priority date does not disclose, teach or suggest an irrigation control system comprising a meter for measuring weather conditions in a first area, a monitor for extracting rainfall data for a sub-area of the first area from a radar scanning the first area, a store for storing the extracted data and a controller connected to the meter, monitor and store for calculating a moisture value and a calculated moisture value for the sub-area and for regulating the irrigation in the sub-area.

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

1. Claims 1, 3 to 12, 14 and 15 do not define the invention described because they omit the following feature which, from reading the specification as a whole, appears to be essential to the invention:
 - (a) the controller regulates the irrigation in the sub-area by either initiating or preventing irrigation of the sub-area depending upon whether the moisture content value is less than or more than the predetermined moisture content value for the sub-area

This feature is defined in Claims 2 and 13. It appears from your description as a whole that the whole point of the invention is to control irrigation by measuring moisture content at least. The monitor studies the radar output, the controller calculates moisture content, simply to arrive at rainfall/moisture content values so that irrigation can be regulated with at least this "moisture" feature in mind. However as Claim 1 for example is defined at present, the regulation need not even consider moisture content; true, the monitor and controller calculate moisture content values but there is nothing defined in the claim to say that the controller uses these values for regulating irrigation.